

**Amendments to the Claims:**

Please amend the claims as shown below. This Listing of Claims will replace prior versions, and listings, of claims in the application.

**Listing of Claims:**

1-26. (Canceled)

27. (Currently Amended) A recording apparatus for forming an image on a recording medium, using at least a first recording head for discharging a carbon ~~first~~ black ink and a second recording head for discharging a ~~second dye~~ black ink, a dye cyan ink, a dye magenta ink and a dye yellow ink,  
the apparatus comprising:

an image processing unit configured to create a first recording data by reading pattern data for recording positional information image representing positions on a recording medium and to create a second recording data by reading recording data for recording an image and synthesize the first recording data and the second recording data; and

a recording control unit configured to execute recording of the first recording data by the first recording head and recording of the second recording data by the second recording head concurrently, based on the synthesized recording data,

wherein the carbon ~~a first~~ black ink is detectable by a ~~predetermined~~ detector configured to detect the carbon black ink recorded on the recording medium, the carbon black ink is used to record the positional information image, and the dye cyan ink, the dye magenta ink, the dye yellow ink, and ~~a second the dye~~ black ink, which are undetectable by the ~~predetermined~~ detector, are used to record the image.

28. (Previously Presented) An apparatus according to claim 27, wherein the positional information image represents positions on the recording medium by combining positions of a plurality of spots recorded on the recording medium.

29. (Previously Presented) An apparatus according to claim 28, wherein the dots are recorded with reference to virtual lattice points of the recording medium.

30. (Currently Amended) An apparatus according to claim 27, wherein the carbon first black ink is recorded using [[a]] the first recording head and the dye cyan ink, dye magenta ink, dye yellow ink, and dye ~~second~~ black ink are recorded using [[a]] the second recording head.

31. (Currently Amended) An apparatus according to claim 27, wherein ~~the first black ink is a carbon ink and the~~ dye cyan ink, dye magenta ink, dye yellow ink, and ~~second~~ dye black ink are carbon free inks.

32. (Currently Amended) A method for forming an image on a recording medium, using at least a first recording head for discharging a carbon first black ink and at least a second recording head for discharging a dye black ink, a dye cyan ink, a dye magenta ink and a dye yellow ink a second black ink, the method comprising:

creating a first recording data by reading pattern data for recording positional information image representing positions on a recording medium and creating a second recording data by reading recording data for recording an image and synthesizing the first recording data and the second recording data; and

executing recording of the first recording data by the first recording head and recording of the second recording data by the second recording head concurrently, based on the synthesized recording data,

wherein the carbon a first black ink ~~detectable detected~~ by a predetermined detector configured to detect the carbon black ink recorded on the recording medium is used to record the positional information image and the dye cyan ink, the dye magenta ink, the dye yellow ink, and the dye a ~~second~~ black ink, which are undetectable by the predetermined detector, are used to record the image.

33. (Previously Presented) A method according to claim 32, wherein the positional information image represents positions on the recording medium by combining positions of a plurality of spots recorded on the recording medium.

34. (Previously Presented) A method according to claim 33, wherein the dots are recorded with reference to virtual lattice points of the recording medium.

35. (Currently Amended) A method according to claim 32, wherein the carbon first black ink is recorded using the [[a]] first recording head and the dye cyan ink, dye magenta ink, dye yellow ink, and dye ~~second~~ black ink are recorded using a second recording head.

36. (Currently Amended) A method according to claim 32, wherein the ~~first black ink is a carbon ink and the~~ dye cyan ink, dye magenta ink, dye yellow ink, and dye ~~second~~ black ink are carbon-free inks.

37. (Currently Amended) A computer-readable storage medium storing computer-executable process steps, the computer-executable process steps causing a computer ~~compute~~ to execute the method of claim 32.

38. (New) A recording apparatus for forming an image on a recording medium, using at least a first recording head for discharging carbon black ink and

a second recording head for discharging dye black ink, a dye cyan ink, dye magenta ink and dye yellow ink,  
the apparatus comprising:

an image processing unit configured to create a first recording data by reading pattern data for recording positional information image representing positions on a recording medium and to create a second recording data by reading recording data for recording an image and synthesize the first recording data and the second recording data; and

a recording control unit configured to execute recording of the first recording data by the first recording head and recording of the second recording data by the second recording head concurrently, based on the synthesized recording data,

the recording apparatus further comprising a sensor unit configured to detect the positional information image recorded using the carbon black ink on the recording medium.

39. (New) An apparatus according to claimed 38, wherein in addition to the dye black ink, the second recording head discharges a dye cyan ink, dye magenta ink and dye yellow ink.